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AMENDMENTS TO THE CLAIMS

- 1. (Cancelled)
- 2. (Previously presented) The mixture as claimed in claim 40, wherein the mixtures contain at least 0.5% by weight of at least one conjugated polymer, at least 1% by weight of at least one bridged carbazole unit and at least 0.1% by weight of at least one triplet emitter.
- 3. (Cancelled)
- 4.-5. (Cancelled)
- 6. (Withdrawn) (Currently Amended) The mixture as claimed in claim 40, containing
 - (A) 0.5-98.5% by weight of the conjugated polymer;

and

(B) 1-99% by weight of a structural unit of the formula (II)

$$(R^{1})_{n}$$
 $(R^{1})_{n}$
 $(R^{1})_{n}$
 $(R^{1})_{n}$

FORMULA (II)

and

(C) 0.1-95% by weight of one or more triplet emitters.

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- 7. (Cancelled)
- 8. (Previously presented) The mixture as claimed in claim 40, wherein the structural units of the formula (I) are incorporated into the conjugated polymer via the 3,6-position or the 2,7-position of a carbazole.
- 9. (Currently Amended) The mixture as claimed in claim 40, wherein the structural units of the formula (I) are incorporated into the conjugated polymer via the 3,3'-position or the 2,2'-position of the two carbazole units when R describes an aryl, heteroaryl, R" is a vinyl or acetylene unit or a combination of these systems.
- 10. (Currently Amended) The mixture as claimed in claim 40, wherein \underline{n} is 1, 2, 3 or 4 and \underline{m} wherein the structural units of the formula (I) are incorporated into the conjugated polymer via the bridge R or via one or two substituents R^1 when R and R^1 describe an aryl, heteroaryl, stilbenyl or tolanyl unit or a combination of these systems.
- 11. (Currently Amended) The mixture as claimed in claim 40, wherein the further structural elements of the polymer are selected from the groups of ortho-, meta- or para-phenylenes, 1,4-naphthylenes, 9,10-anthracenylenes, 2,7-phenanthrenylenes, 1,6- or 2,7- or 4,9-pyrenes or 2,7-tetrahydropyrenes, oxadiazolylenes, 2,5-thiophenylenes, 2,5-pyrrolylenes, 2,5-furanylenes, 2,5-pyridylenes, 2,5-pyrimidinylenes, 5,8-quinolinylenes, fluorenes, spiro-9,9'-bifluorenes, indenofluorenes or heteroindenofluorenes.
- 12. (Previously presented) The mixture as claimed in claim 11, wherein further structural elements which improve the charge transport and/or the charge injection and/or the charge equilibrium are present in the polymer.
- 13. (Previously presented) The mixture as claimed in claim 12, wherein the further structural elements are selected from the groups of the triarylamines or the oxadiazolylenes.
- 14. (Currently Amended) The mixture as claimed in claim 40, wherein the symbols and indices of the formula (I) are:

R is the same or different at each instance and is a straight-chain or branched alkyl chain which has from 3 to 10 carbon atoms and may be unsubstituted or R¹-substituted, in which one or more nonadjacent carbon atoms is optionally replaced by -N-R²-, -O- or -S-, a bivalent aromatic or heteroaromatic ring system selected from thiophene, benzene, naphthalene, anthracene or phenanthrene, each of which is unsubstituted or substituted by one or two substituents R¹, a 9,9'-substituted fluorene, a spirobifluorene substituted by from 0 to 4 substituents R¹, a 9,10- or 9,9,10,10-substituted dihydrophenanthrene, a stilbenyl or tolanyl system which bears from 0 to 2 substituents R¹ at the free positions;

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n is the same or different at each instance and is 0, 1 or 2;

the linkage to the polymer chain is via the 3,6- or the 2,7-position or via the 3,3'-position when R is an aryl, heteroaryl, stilbenyl or tolanyl system, or via two positions on R itself or on R¹ when R or R¹ is an aryl, heteroaryl, stilbenyl or tolanyl system, so that the number of aromatic atoms between the points of linkage is a multiple of four, and that the symbols and indices of the formula (II) are:

R" is the same or different at each instance and is a straight-chain or branched alkyl chain which has from 3 to 10 carbon atoms and may be unsubstituted or R¹-substituted, in which one or more nonadjacent carbon atoms is optionally replaced by -N-R²-, -O- or -S-, a bivalent aromatic or heteroaromatic ring system selected from thiophene, benzene, naphthalene, anthracene or phenanthrene, each of which is unsubstituted or substituted by one or two substituents R[‡], a 9,9'-substituted fluorene, a spirobifluorene substituted by from 0 to 4 substituents R[‡], a 9,10- or 9,9,10,10-substituted dihydrophenanthrene, a stilbenyl or tolanyl system which bears from 0 to 2 substituents R[‡] at the free positions; and

n is the same or different at each instance and is 0, 1 or 2.

15. (Cancelled)

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- 16. (Cancelled)
- 17. (Withdrawn) The mixture as claimed in claim 40, wherein the triplet emitter contains heavy atoms.
- 18. (Withdrawn) The mixture as claimed in claim 17, wherein the triplet emitter comprises d and/or f transition metals.
- 19. (Withdrawn) The mixture as claimed in claim 18, wherein the triplet emitter comprises metals of groups 8 to 10 of the periodic table of elements.
- 20. (Withdrawn) The mixture as claimed in claim 40, wherein the triplet emitter is incorporated into the main chain of the polymer.
- 21. (Withdrawn) The mixture as claimed in claim 40, wherein the triplet emitter is incorporated into the side chain of the polymer.
- 22. (Previously presented) The mixture as claimed in claim 40, wherein any further molecules, which may be low molecular weight, oligomeric, dendritic or polymeric, may also be added to the mixture.
- 23. (Cancelled)
- 24. (Previously presented) The mixture as claimed in claim 40, wherein the total content of structural units of the formula (I) and formula (II) is 20-99 mol%.
- 25. (Cancelled)
- 26. (Withdrawn) The mixture as claimed in claim 40, wherein further molecules, which may be low molecular weight, oligomeric, dendritic or polymeric, may be added to the polymer.
- 27. (Withdrawn) (Currently Amended) Compounds A compound of the formula (LIX)

$$(R^1)_n \longrightarrow (R^1)_n$$

FORMULA (LIX),

characterized in that the two functional groups Y are the same or different and copolymerize under conditions for C-C or C-N bond formations, and the further symbols and indices are each as defined in claim 3

R is the same or different at each instance and is a straight-chain, branched or cyclic alkylene chain which has from 1 to 40 carbon atoms and is optionally R¹-substituted or unsubstituted, in which one or more nonadjacent carbon atoms is optionally replaced by –NR²-, -O-, -S-, -CO-, -CO-O-, -CO-NR²-, -O-CO-O, or is a bivalent, aromatic or heteroaromatic ring system which has from 2 to 40 carbon atoms and is optionally R¹-substituted or unsubstituted, an R¹-substituted or unsubstituted vinylene unit, an acetylene unit; the possible substituents R¹ may optionally be situated at any free position and said aromatic ring system is selected from the group consisting of

a benzene which is unsubstituted or substituted by one or two substituents R¹, an anthracene which is unsubstituted or substituted by one or two substituents R¹

a phenanthrene, each of which is unsubstituted or substituted by one or two substituents R¹,

a 9,9'-substituted fluorene,

a spirobifluorene substituted by from 0 to 4 substituents R¹,

a 9,10-substituted dihydrophenanthrene,

a 9,9,10,10-substituted dihydrophenanthrene,

a stilbenyl or

a tolanyl system which bears from 0 to 2 substituents R¹ at the free

positions,

- is the same or different at each instance and is a straight-chain, branched or cyclic alkyl or alkoxy chain having from 1 to 22 carbon atoms, in which one or more nonadjacent carbon atoms is optionally replaced by –NR²-, O-, -S-, -CO-O-, -O-CO-O-, in which one or more hydrogen atoms is optionally replaced by fluorine, or is an aryl or aryloxy group having from 5 to 40 carbon atoms, in which one or more carbon atoms is optionally replaced by O, S or N, and which is optionally substituted by one or more nonaromatic R¹ radicals, a vinyl or acetylene group or F, Cl, Br, I, NO₂, CN, N(R²)₂, B(R²)₂, Si(R²)₃, and two or more R¹ radicals together may also form an aliphatic or aromatic, mono- or polycyclic ring system;
- is the same or different at each instance and is H, a straight-chain,
 branched or cyclic alkyl chain having from 1 to 22 carbon atoms, in which
 one or more nonadjacent carbon atoms is optionally replaced by O, S, CO-O-, -O-CO-O-, and in which one or more hydrogen atoms is
 optionally replaced by fluorine, or is an aryl group having from 5 to 40
 carbon atoms, in which one or more carbon atoms is optionally replaced
 by O, S or N and which is optionally substituted by one or more
 nonaromatic R² radicals;

two or more R² radicals together optionally form a ring system;

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n is the same or different at each instance and is 0, 1, 2, 3 or 4, with the proviso that n must not be 4 when there is a linkage to the polymer chain on this phenyl unit, and that n must not be 3 or 4 when both linkages to the polymer chain are on this phenyl unit;

- Y describes the linkage of the unit to the conjugated polymer.
- 28. (Withdrawn)(Currently Amended) <u>The compound Compounds</u> as claimed in claim 27, characterized in that Y is selected from the groups of Cl, Br, I, O-tosylate, O-triflate, OSO_2R^2 , $B(OH)_2$, $B(OR^2)_2$, $Sn(R^2)_3$ and NHR^2 , where
- R² is the same or different at each instance and is H, a straight-chain, branched or cyclic alkyl chain having from 1 to 22 carbon atoms, in which one or more nonadjacent carbon atoms is optionally replaced by O, S, -CO-O-, -O-CO-O-, and in which one or more hydrogen atoms is optionally replaced by fluorine, or is an aryl group having from 5 to 40 carbon atoms, in which one or more carbon atoms is optionally replaced by O, S or N and which is optionally substituted by one or more nonaromatic R² radicals.
- 29. (Withdrawn)(Currently Amended) <u>The compound Compounds</u> as claimed in claim 27, characterized in that the C-C or C-N bond formations are selected from the groups of the SUZUKI coupling, the YAMAMOTO coupling, the STILLE coupling and the HARTWIG-BUCHWALD coupling.
- 30. (Cancelled)
- 31. (Cancelled)
- 32. (Withdrawn) An electronic component which comprises one or more active layers, at least one of these layers comprising one or more mixtures or polymers as claimed in claim 40.
- 33. (Withdrawn) (Currently Amended) The electronic component as claimed in claim 32, eharacterized in that it wherein the electronic component is an organic light-emitting diode, 8

organic solar cell, organic laser diode, an organic optical detector or a device for nonlinear optics.

- 34. (Currently Amended) A mixture comprising
- (A) at least one conjugated polymer comprises one or more units selected from the formulae (VI) to (XXXVIII) which may be substituted or unsubstituted

(B) at least one bridged carbazole unit which comprises at least one compound of the formula (II)

$$(R^{1})_{n}$$
 $(R^{1})_{n}$ $(R^{1})_{n}$ $(R^{1})_{n}$

FORMULA (II)

where the symbols and indices are defined as follows:

- is the same or different at each instance and is a straight-chain, branched or cyclic alkylene chain which has from 1 to 40 carbon atoms and is optionally R¹-substituted or unsubstituted, in which one or more nonadjacent carbon atoms is optionally replaced by –NR²-, -O-, -S-, -CO-, -CO-O-, -CO-NR²-, -O-CO-O, or is a bivalent, aromatic or heteroaromatic ring system which has from 2 to 40 carbon atoms and is optionally R¹-substituted or unsubstituted, an R¹-substituted or unsubstituted vinylene unit, an acetylene unit; the aromatic units is optionally part of a larger fused system; the possible substituents R¹ may optionally be situated at any free position;
- R¹ is the same or different at each instance and is a straight-chain, branched or cyclic alkyl or alkoxy chain having from 1 to 22 carbon atoms, in which one or more nonadjacent carbon atoms is optionally replaced by –NR²-, -O-, -S-, -CO-O-, -O-CO-O-, in which one or more hydrogen atoms is optionally replaced by fluorine, or is an aryl or aryloxy group having from 5 to 40 carbon atoms, in which one or

more carbon atoms is optionally replaced by O, S or N, and which is optionally substituted by one or more nonaromatic R^1 radicals, a vinyl or acetylene group or F, Cl, Br, I, NO₂, CN, N(R^2)₂, B(R^2)₂, Si(R^2)₃, and two or more R^1 radicals together may also form an aliphatic or aromatic, mono- or polycyclic ring system;

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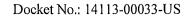
R² is the same or different at each instance and is H, a straight-chain, branched or cyclic alkyl chain having from 1 to 22 carbon atoms, in which one or more nonadjacent carbon atoms is optionally replaced by O, S, -CO-O-, -O-CO-O-, and in which one or more hydrogen atoms is optionally replaced by fluorine, or is an aryl group having from 5 to 40 carbon atoms, in which one or more carbon atoms is optionally replaced by O, S or N and which is optionally substituted by one or more nonaromatic R² radicals;

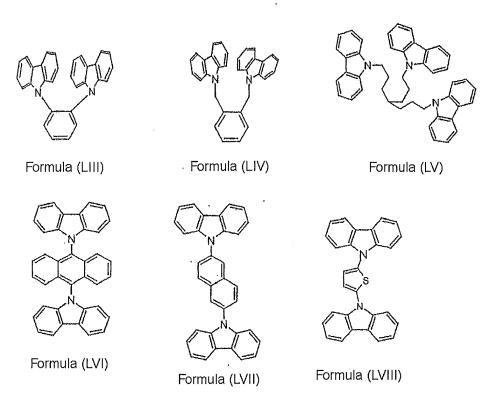
two or more R² radicals together optionally form a ring system;

- n is the same or different at each instance and is 0, 1, 2, 3 or 4, with the proviso that n must not be 4 when there is a linkage to the polymer chain on this phenyl unit, and that n must not be 3 or 4 when both linkages to the polymer chain are on this phenyl unit; and
- (C) at least one triplet emitter.
- 35. (Withdrawn) The mixture as claimed in claim 40, wherein the structural elements of the formula (II) are selected from the formula (XXX)to (LVIII) which may be substituted or unsubstituted

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36. (Withdrawn) Compounds as claimed in claim 27, wherein the monomeric compounds of the formula (LIX) lead in the polymer to structural units of the formula (VI) to (XXXVIII)

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- 37. (Cancelled)
- 38. (Currently Amended) A mixture comprising
- (A) at least one conjugated polymer which is selected from the group consisting of ortho-phenylene, 9,10-anthracenylene, 2,7-phenanthrenylene, 1,6-pyrene, 2,7-pyrene, 4,9-972750 19

pyrene, 2,7-tetrahydropyrene, oxadiazolylene, 2,5-thiophenylene, 2,5-pyrrolylene, 2,5-furanylene, 2,5-pyridylene, 2,5-pyrimidinylene, 5,8-quinolinylene, spiro-9,9'-bifluorene and heteroindenofluorine, wherein the at least one conjugated polymer comprises one or more units of the formula (I),

$$X = \begin{pmatrix} (R^1)_n & & \\ &$$

FORMULA (I)

where the symbols and indices are defined as follows:

R is the same or different at each instance and is a straight-chain, branched or cyclic alkylene chain which has from 1 to 40 carbon atoms and is optionally R¹-substituted or unsubstituted, in which one or more nonadjacent carbon atoms is optionally replaced by –NR²-, -O-, -S-, -CO-, -CO-O-, -CO-NR²-, -O-CO-O, or is a bivalent, aromatic or heteroaromatic ring system which has from 2 to 40 carbon atoms and is optionally R¹- substituted or unsubstituted, an R¹-substituted or unsubstituted vinylene unit, an acetylene unit; the possible substituents R¹ may optionally be situated at any free position and said aromatic ring system is selected from the group consisting of

<u>a</u> benzene <u>which is unsubstituted or substituted by one or two</u> substituents R¹,

an anthracene which is unsubstituted or substituted by one or two substituents R¹

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<u>a</u> phenanthrene, each of which is unsubstituted or substituted by one or two substituents R^1 ,

a 9,9'-substituted fluorene,

a spirobifluorene substituted by from 0 to 4 substituents R¹,

a 9,10-substituted dihydrophenanthrene, [or]

a 9,9,10,10-substituted dihydrophenanthrene,

a stilbenyl or

a tolanyl system which bears from 0 to 2 substituents R¹ at the free positions,

- is the same or different at each instance and is a straight-chain, branched or cyclic alkyl or alkoxy chain having from 1 to 22 carbon atoms, in which one or more nonadjacent carbon atoms is optionally replaced by –NR²-, -O-, -S-, -CO-O-, -O-CO-O-, in which one or more hydrogen atoms is optionally replaced by fluorine, or is an aryl or aryloxy group having from 5 to 40 carbon atoms, in which one or more carbon atoms is optionally replaced by O, S or N, and which is optionally substituted by one or more nonaromatic R¹ radicals, a vinyl or acetylene group or F, Cl, Br, I, NO₂, CN, N(R²)₂, B(R²)₂, Si(R²)₃, and two or more R¹ radicals together may also form an aliphatic or aromatic, mono- or polycyclic ring system;
- R² is the same or different at each instance and is H, a straight-chain, branched or cyclic alkyl chain having from 1 to 22 carbon atoms, in which one or more nonadjacent carbon atoms is optionally replaced by O, S, CO-O-, -O-CO-O-, and in which one or more hydrogen atoms is optionally replaced by fluorine, or is an aryl group having from 5 to 40 carbon atoms, in which one or more carbon atoms is optionally replaced by O, S or N and which is optionally substituted by one or more nonaromatic R² radicals;

two or more R² radicals together optionally form a ring system;

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- n is the same or different at each instance and is 0, 1, 2, 3 or 4, with the proviso that n must not be 4 when there is a linkage to the polymer chain on this phenyl unit, and that n must not be 3 or 4 when both linkages to the polymer chain are on this phenyl unit;
- X describes the linkage of the unit to the conjugated polymer
- (B) at least one bridged carbazole unit which comprises at least one compound of the formula (II)

$$(R^{1})_{n}$$
 $(R^{1})_{n}$
 $(R^{1})_{n}$
 $(R^{1})_{n}$

FORMULA (II)

where the symbols R, R¹, R² and the indices n are each as defined under formula (I) and

$$(R^{1})n \xrightarrow{\qquad \qquad \qquad \qquad } (R^{1})n$$

$$(R^{1})n \xrightarrow{\qquad \qquad \qquad } (R^{1})n$$

FORMULA (II)

R" is the same or different at each instance and is a straight-chain, branched or cyclic alkylene chain which has from 1 to 40 carbon atoms and is optionally R¹-substituted or unsubstituted, in which one or more nonadjacent carbon atoms is optionally replaced by -NR²-, -O-, -S-, -CO-, -CO-O-, -CO-NR²-, -O-CO-O, or is an R¹-substituted or unsubstituted vinylene unit, an acetylene unit or a combination of from 2 to 5 of these systems; the possible substituents R¹ may optionally be situated at any free position and

wherein R¹ and n are defined above under formula (I) and

- (C) at least one triplet emitter.
- 39. (Withdrawn) Compounds as claimed in claim 27, wherein the monomeric compounds of the formula (LIX) lead in the polymer to structural units of the formula (VI) to (XXXVIII)

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40. (Currently Amended) A mixture comprising

(A) at least one conjugated polymer comprises one or more units of the formula (I),

$$X = \begin{pmatrix} (R^1)_n & & & \\ & & &$$

FORMULA (I)

where the symbols and indices are defined as follows:

R is the same or different at each instance and is a straight-chain, branched or cyclic alkylene chain which has from 1 to 40 carbon atoms and is optionally R¹-substituted or unsubstituted, in which one or more nonadjacent carbon atoms is optionally replaced by –NR²-, -O-, -S-, -CO-, -CO-O-, -CO-NR²-, -O-CO-O, or is a bivalent, aromatic or heteroaromatic ring system which has from 2 to 40 carbon atoms and is optionally R¹-substituted or unsubstituted, an R¹-substituted or unsubstituted vinylene unit, an acetylene unit; the possible substituents R¹ may optionally be situated at any free position and

said aromatic ring system <u>or heteroaromatic ring system</u> is selected from the group consisting of

a thiophene which is unsubstituted or substituted by one or two substituents R¹,

a benzene which is unsubstituted or substituted by one or two substituents R¹,

a biphenyl which is unsubstituted or substituted by one or two substituents R¹,

a naphthalene which is unsubstituted or substituted by one or two substituents R¹,

an anthracene which is unsubstituted or substituted by one or two substituents R¹ [or]

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<u>a</u> phenanthrene, each of which is unsubstituted or substituted by one or two substituents R¹.

a 9,9'-substituted fluorene,

a spirobifluorene substituted by from 0 to 4 substituents R¹,

a 9,10-substituted dihydrophenanthrene, [or]

<u>a</u> 9,9,10,10-substituted dihydrophenanthrene,

a stilbenyl [or]

<u>a</u> tolanyl system which bears from 0 to 2 substituents R^1 at the free positions, $[\Theta^2]$ and combinations of these systems;

- R¹ is the same or different at each instance and is a straight-chain, branched or cyclic alkyl or alkoxy chain having from 1 to 22 carbon atoms, in which one or more nonadjacent carbon atoms is optionally replaced by –NR²-, -O-, -S-, -CO-O-, -O-CO-O-, in which one or more hydrogen atoms is optionally replaced by fluorine, or is an aryl or aryloxy group having from 5 to 40 carbon atoms, in which one or more carbon atoms is optionally replaced by O, S or N, and which is optionally substituted by one or more nonaromatic R¹ radicals, a vinyl or acetylene group or F, Cl, Br, I, NO₂, CN, N(R²)₂, B(R²)₂, Si(R²)₃, and two or more R¹ radicals together may also form an aliphatic or aromatic, mono- or polycyclic ring system;
- R² is the same or different at each instance and is H, a straight-chain, branched or cyclic alkyl chain having from 1 to 22 carbon atoms, in which one or more nonadjacent carbon atoms is optionally replaced by O, S, CO-O-, -O-CO-O-, and in which one or more hydrogen atoms is optionally replaced by fluorine, or is an aryl group having from 5 to 40 carbon atoms, in which one or more carbon atoms is optionally replaced by O, S or N and which is optionally substituted by one or more

nonaromatic R² radicals;

two or more R² radicals together optionally form a ring system;

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- n is the same or different at each instance and is 0, 1, 2, 3 or 4, with the proviso that n must not be 4 when there is a linkage to the polymer chain on this phenyl unit, and that n must not be 3 or 4 when both linkages to the polymer chain are on this phenyl unit;
- X describes the linkage of the unit to the conjugated polymer,
- (B) at least one bridged carbazole unit and
- (C) at least one triplet emitter

and wherein said at least one bridged carbazole unit comprises

at least one compound of the formula (II)

$$(R^1)n$$

$$R''$$

$$(R^1)n$$

$$(R^1)n$$

FORMULA (II)

R" is the same or different at each instance and is a straight-chain, branched or cyclic 972750 29

alkylene chain which has from 1 to 40 carbon atoms and is optionally R¹-substituted or unsubstituted, in which one or more nonadjacent carbon atoms is optionally replaced by –NR²-, -O-, -S-, -CO-, -CO-O-, -CO-NR²-, -O-CO-O, or is a bivalent, aromatic <u>ring system</u> or heteroaromatic ring system which has from 2 to 40 carbon atoms and is optionally R¹-substituted or unsubstituted, an R¹-substituted or unsubstituted vinylene unit, an acetylene unit or a combination of from 2 to 5 of these systems; the possible substituents R¹ may optionally be situated at any free position and said aromatic ring system is selected from the group consisting of benzene, naphthalene, anthracene or phenanthrene, each of which is unsubstituted or substituted by one or two substituents R¹, a 9,9'-substituted fluorene, a spirobifluorene substituted by from 0 to 4 substituents R¹, a 9,10- or 9,9,10,10 substituted dihydrophenanthrene, a stilbenyl or tolanyl system which bears from 0 to 2 substituents R¹-at the free positions, or combinations of 2 or 3 of these systems;

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where the symbols R¹, R² and the indices n are each as defined under formula (I) and wherein units of the formula (I) are incorporated into the conjugated polymer via the bridge R, 3,6-position or the 2,7-position of a carbazole or 3,3'-position or the 2,2'-position of the two carbazole units when R describes an aryl, heteroaryl, vinyl or acetylene unit or a combination of these systems.

41. (Currently Amended) The mixture as claimed in claim 40, wherein R in formula (I) is the same or different at each instance and is a straight-chain or branched alkylene chain which has from 3 to 10 carbon atoms and is optionally unsubstituted or R¹-substituted, in which one or more nonadjacent carbon atoms is optionally replaced by -N-R²-, -O- or -S-, a bivalent aromatic or heteroaromatic ring system selected from is

<u>a</u> thiophene <u>which is unsubstituted or substituted by one or two substituents R¹, <u>a</u> benzene <u>which is unsubstituted or substituted by one or two substituents R¹,</u></u>

[Or]

a biphenyl which is unsubstituted or substituted by one or two substituents R^1 , a naphthalene which is unsubstituted or substituted by one or two substituents R^1 , an anthracene which is unsubstituted or substituted by one or two substituents R^1

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 \underline{a} phenanthrene, each of which is unsubstituted or substituted by one or two substituents R^1 ,

a 9,9'-substituted fluorene,

a spirobifluorene substituted by from 0 to 4 substituents R¹,

a 9,10-substituted dihydrophenanthrene, [or]

a 9,9,10,10-substituted dihydrophenanthrene,

a stilbenyl or

<u>a</u> tolanyl system which bears from 0 to 2 substituents R¹ at the free positions, or combinations of 2 or 3 of these systems; and

R in the formula (II) R" in the formula (II) is the same or different at each instance and is a straight-chain, branched or cyclic alkylene chain which has from 2 to 20 carbon atoms and is optionally R¹-substituted or unsubstituted, in which one or more nonadjacent carbon atoms is optionally replaced by -NR²-, -O-, -S-, -CO-O-, -CO-NR²- or -O-CO-O-, a bivalent aromatic or heteroaromatic ring system selected from thiophene, benzothiophene, benzene, biphenyl, pyridine, quinoxaline, fluorene, spirobifluorene, naphthalene, anthracene, pyrene, phenanthrene, dihydrophenanthrene which bears from 0 to 4 substituents R¹ at the free positions, a stilbenyl or tolanyl system which bears from 0 to 4 substituents R¹ at the free positions, or combinations of from 2 to 5 of these systems.

42. (New) The mixture as claimed in claim 40, wherein the further structural elements of the polymer are 9,10-anthracenylenes, 2,7-phenanthrenylenes, 1,6- or 2,7- or 4,9-pyrenes or 2,7-tetrahydropyrenes, oxadiazolylenes, 2,5-thiophenylenes, 2,5-pyrrolylenes, 2,5-furanylenes, 2,5-pyridylenes, 2,5-pyrimidinylenes, 5,8-quinolinylenes, spiro-9,9'-bifluorenes, or heteroindeno-fluorenes.

43. (New)The compound as claimed in claim 27, wherein

R is the same or different at each instance and is a straight-chain, branched or cyclic alkylene chain which has from 1 to 40 carbon atoms and is optionally R^1 -substituted or unsubstituted, in which one or more nonadjacent carbon atoms is optionally replaced by $-NR^2$ -, -O-, -S-, -CO-, -CO-O-, -CO- NR^2 -, -O-CO-O, an R^1 -substituted or unsubstituted vinylene unit, an acetylene unit; the possible substituents R^1 may optionally be situated at any free position.